



SFW 1711

PATENT APPLICATION
PO-6657
LeA 34,814

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION OF |) | GROUP NO.: | 1711 |
| KARL-HEINZ DÖRNER ET AL |) | | |
| SERIAL NUMBER: 10/047,365 |) | EXAMINER: | T.T. TRAN |
| FILED: JANUARY 14, 2002 |) | | |
| TITLE: SOLAR MODULES WITH A TRANSPARENT POLYURETHANE FRONT SIDE AND A PROCESS FOR PRODUCING SAME |) | | |
| U.S. PATENT NUMBER: 7,049,803 B2 |) | | |
| DATE ISSUED: MAY 23, 2006 |) | | |

LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Patentees wish to place the enclosed document with the prosecution history of the subject patent. Accordingly, enclosed is a copy of the following document

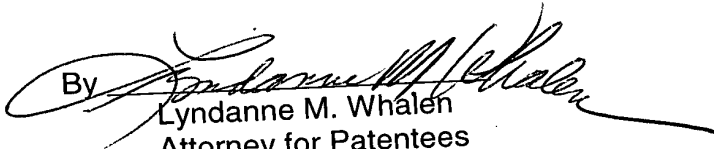
DE 100 48 034 A1 Zenit Energietechnik GMBH 05/08/02
(Abstract attached)

It is believed that this document may be of interest to any member of the general public examining the subject file.

Respectfully submitted,

Bayer MaterialScience LLC
100 Bayer Road
Pittsburgh, Pennsylvania 15205-9741
412) 777-3843
FACSIMILE PHONE NUMBER:
(412) 777-3902
s:\bsh\LMW0904

By


Lyndanne M. Whalen
Attorney for Patentees
Reg. No. 29,457

POWERED BY **Dialog**

Glass-less flexible solar laminate used on roofs and facades has a permanently elastic self adhesive layer on its rear side in which flat electrical lines for connecting to a roof or facade and additional lines for wiring are embedded

Patent Assignee: ZENIT ENERGIETECHNIK GMBH; CIS SOLAR PROD GMBH & CO KG

Inventors: KALBERLAH K

Patent Family

| Patent Number | Kind | Date | Application Number | Kind | Date | Week | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 1191605 | A2 | 20020327 | EP 2001250338 | A | 20010926 | 200244 | B |
| DE 10048034 | A1 | 20020508 | DE 10048034 | A | 20000926 | 200244 | |

Priority Applications (Number Kind Date): DE 10048034 A (20000926)

Patent Details

| Patent | Kind | Language | Page | Main IPC | Filing Notes |
|---|------|----------|------|--------------|--------------|
| EP 1191605 | A2 | G | 6 | H01L-031/048 | |
| Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR | | | | | |
| DE 10048034 | A1 | | | H01L-031/048 | |

Abstract:

EP 1191605 A2

NOVELTY Glass-less flexible solar laminate has a permanently elastic self adhesive layer on its rear side in which flat electrical lines (5) for connecting to a roof or facade and additional lines (6) for wiring are embedded.

USE Used on roofs and facades for converting daylight into electrical energy.

ADVANTAGE The laminate can be easily installed.

DESCRIPTION OF DRAWING(S) The drawing shows a cross-section through the solar laminate.

Rubber adhesive (2)

Foam (4)

Flat electrical lines (5)

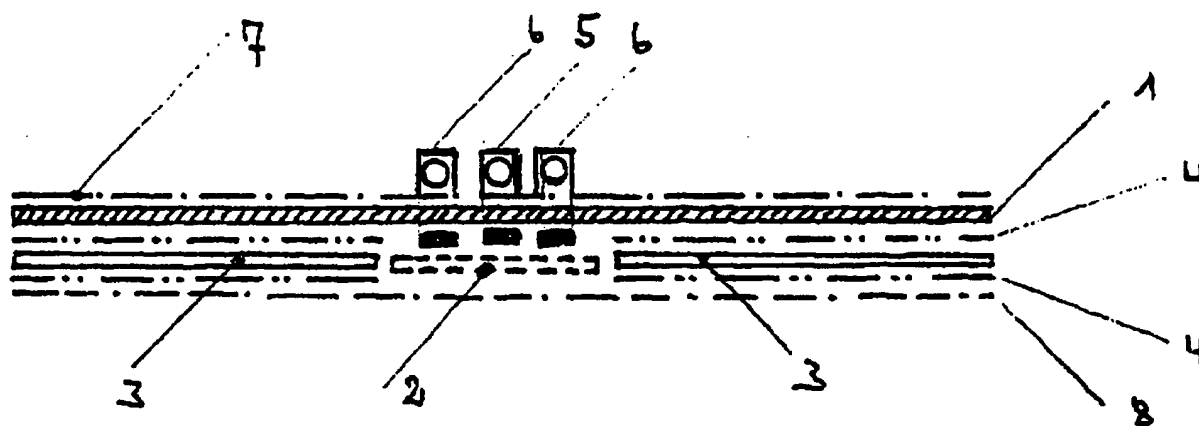
Additional lines (6)

pp; 6 DwgNo 1/2

Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Features: The self adhesive layer consists of two adhesive systems. A third adhesive system is also present as an acrylic-foam adhesive strip.

Preferred Materials: The adhesive systems are made of butyl rubber adhesive (2) and a foam (4) coated on both sides with acrylate adhesive.



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